**7 kyu**

**Tidy Number (Special Numbers Series #9)**

4490% of 183111 of787[MrZizoScream](https://www.codewars.com/users/MrZizoScream)

C++

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**Definition**

A ***Tidy number*** *is a number whose* ***digits are in non-decreasing order***.

**Task**

***Given*** a number, ***Find if it is Tidy or not*** .

**Warm-up (Highly recommended)**

[**Playing With Numbers Series**](https://www.codewars.com/collections/playing-with-numbers)

**Notes**

* ***Number*** *passed is always* ***Positive*** .
* ***Return*** *the result as* a ***Boolean***

**Input >> Output Examples**

1- tidyNumber (12) ==> return (true)

***Explanation***:

***The number's digits*** { 1 , 2 } are *in non-Decreasing Order* (i.e) *1 <= 2* .

2- tidyNumber (32) ==> return (false)

***Explanation***:

***The Number's Digits*** { 3, 2} are ***not in non-Decreasing Order*** (i.e) *3 > 2* .

3- tidyNumber (1024) ==> return (false)

***Explanation***:

***The Number's Digits*** {1 , 0, 2, 4} are ***not in non-Decreasing Order*** as *0 <= 1* .

4- tidyNumber (13579) ==> return (true)

***Explanation***:

***The number's digits*** {1 , 3, 5, 7, 9} are *in non-Decreasing Order* .

5- tidyNumber (2335) ==> return (true)

***Explanation***:

***The number's digits*** {2 , 3, 3, 5} are *in non-Decreasing Order* , ***Note*** *3 <= 3*

[**Playing with Numbers Series**](https://www.codewars.com/collections/playing-with-numbers)

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ALL translations are welcomed

Enjoy Learning !!

**Zizou**

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#include <vector>

#include <iostream>

#include <string>

using namespace std;

//A Tidy number is a number whose digits are in non-decreasing order.

bool tidyNumber (int number)

{

int pre = number % 10;

number /= 10;

while(number > 0) {

//cout << number % 10 << endl;

if(number % 10 > pre) return false;

pre = number % 10;

number /= 10;

}

return true;

}

int main() {

int number = 1232;

cout << tidyNumber( number) << endl;

return 0;

}